Phase 6 Multiples, Factors, Primes and Patterns Assessment

Phase 6 Progression Overview	Assessment Note	Marks
I can find all the factors of any whole number	Question 1	/1
I can use known relationships between multiplication and division to find multiples	Question 2	/1
I can determine the rule (known as generalisation) that describes the pattern from a table of results and use this rule to calculate the corresponding value for a larger number.	Question 3	/2
	TOTAL MARKS	**/4**

<table>
<tr><th></th><th>Question</th><th>Mark</th></tr>
<tr><td>1</td><td>I can find all the factors of any whole number

a.) Find all the factors of 36.
Show how you know you have found every factor.
Hint: Work in pairs (e.g., 1 × 36, 2 × 18…) until you reach the middle.</td><td>1</td></tr>
<tr><td>2</td><td>I can use known relationships between multiplication and division to find multiples

a.) A pupil says: “I think 54 is a multiple of 6 because 6 × 9 = 54.”
Which of the following statements correctly uses multiplication or division to check whether 72 is a multiple of 6?

A. 72 ÷ 6 = 12, so 72 is a multiple of 6.
B. 6 ÷ 72 = 12, so 72 is a multiple of 6.
C. 72 × 6 = 12, so 72 is a multiple of 6.
D. 72 ÷ 9 = 8, so 72 is a multiple of 6.</td><td>1</td></tr>
<tr><td>3</td><td>I can determine the rule (known as generalisation) that describes the pattern from a table of results and use this rule to calculate the corresponding value for a larger number.

a.) A machine creates a pattern using this table:

<table>
<tr><th>INPUT</th><th>OUTPUT</th></tr>
<tr><td>1</td><td>5</td></tr>
<tr><td>2</td><td>8</td></tr>
<tr><td>3</td><td>11</td></tr>
<tr><td>4</td><td>14</td></tr>
<tr><td>5</td><td></td></tr>
</table>

What is the rule that links the input to the output?

Choose the correct answer:

A. Multiply the input by 5
B. Add 3 to the input
C. Multiply the input by 3, then add 2
D. Multiply the input by 2, then add 3

b.) Finish the table</td><td>2</td></tr>
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